Int. J. Pres. Ves. & Piping **49** (1992) 407–408

CONTENTS OF VOLUME 49

Number 1

On the Limit Analysis of Cylindrical Shells with a Single Cutout 1
S. S. B. FOO (Singapore)

Displacements in a Clamped Annular Plate Transversely Loaded at an Arbitrary Point by a Concentrated Force 17
C. BANDERA & A. STROZZI (Italy)

Minimum Mass Design of a Three-Throw Plunger Pump 35
JERZY KOWALSKI (Mexico) & KONRAD PYLAK (Poland)

Seismic Design Rules for Flat Bottom Cylindrical Liquid Storage Tanks 61
N. J. I. ADAMS (UK)

Simplified Method for Elasto-plastic Analysis of Structures under Variable Cyclic Loading 97
WANG XUCHENG (People's Republic of China), LEI YUTIAN (USA) & CHANG LIANGMING (People's Republic of China)

Temper-Embrittlement in 15Cr2NiMoV Steel 109
L. NOVAK & J. KOUTSKY (Czechoslovakia)

Shape Development of Surface Defects in Tension Fatigued Finite Thickness Plates 121
M. D. GILCHRIST, M. I. CHIPALO & R. A. SMITH (UK)

Number 2

Influence of Mean Stress and Frequency on the Fatigue Crack Growth Behaviour of A508 cl III Steel in a Low Temperature Pressurised Water Reactor Environment 139
J. H. BULLOCH (Republic of Ireland)

Finite Element Validation Studies of the Revised PD6493/CEGB R6. Part 1—Failure Assessment Methodologies Applied to Welded Flat Plates and Pipe/Plate Joints 187
D. M. FINCH & F. M. BURDEKIN (UK)

Finite Element Validation Studies of the Revised PD6493/CEGB R6: Part 2—Failure Assessment Methodologies Applied to Welded Tubular Joints 213
D. M. FINCH & F. M. BURDEKIN (UK)

Summary of Design of Nuclear Vessels and Piping to ASME III (NB, NC, ND) and Vessels to BS 5500 231
L. P. HARROP (UK)

Int. J. Pres. Ves. & Piping (**49**) (1992)—© 1992 Elsevier Science Publishers Ltd, England. Printed in Northern Ireland

Book Review
IIW guidance on assessment of the fitness for purpose of welded structures. The International Institute of Welding, 1991. 267
(Reviewed by J. Hicks)

Announcement 269

Number 3

The Effect of Nickel Content on the Environmental Assisted Cracking (EAC) Behaviour of Low Alloy Steels in Sour Environments—A Review 271
A. R. JARVIS (Republic of South Africa) & J. H. BULLOCH (Republic of Ireland)

The Effect of Residual Stresses on the Onset of Crack Extension in an Engineering Component 309
E. SMITH (UK)

Use of the Reflectionless Stress Intensity Factor Procedure to Predict Crack Arrest during a Hypothetical Pressurized Thermal Shock Event: The Effect of Initial Crack Size 317
E. SMITH (UK)

A Temperature and Strain Rate Dependent Strain Hardening Law 327
K. T. KIM & Y. H. CHO (Korea)

The Role of Reverse Temper Embrittlement on Some Low and High Temperature Crack Extension Processes in Low Carbon, Low Alloy Steels: A Review 339
J. J. HICKEY & J. H. BULLOCH (Republic of Ireland)

Sensitivity Analysis in Shape Optimization Design for a Pressure Vessel 387
LI YOUNSHENG (People's Republic of China)

Announcement 399